

JP11264812A

WET TYPE DEVICE FOR MEASURING AMOUNT OF CHARGE OF MINUTE PARTICLE
DAINIPPON PRINTING CO LTD

Inventor(s): ; SHINPO TOMOHIRO

Application No. 10069695, Filed 19980319, Published 19990928

Abstract: PROBLEM TO BE SOLVED: To make the amount of charge measurable in real time by synchronizing the temporal changes of particles being adhered to electrode plates and the value of current passing between the electrodes, and to secure the reproducibility of measured values.

SOLUTION: The wet type device for measuring the amount of charge of minute particles is provided with a current measuring means 9 to measure a micro-current which passes at the time of impressing a d.c. voltage between two flat plate electrodes immersed in a particle diffusion liquid, weight measuring means (13 and 15) to measure the weight of micro particles adhered to the electrodes by electrophoresis, and a control means 10 to synchronize the measured current value and the measured weight value, to capture them in real time, and to compute and display the electric property evaluated value of a diffusion liquid. As it is possible to verify the continuous state of being adhered to the electrode plates by this, the device is effective as a means to evaluate the properties of each micro-particle such as the speed of electrophoresis.

Int'l Class: G01N02760 G01R02924 G03G01502

MicroPatent Reference Number: 000264741

COPYRIGHT: (C) 1999JPO
